MiniMc-Gigabit/Giga-MiniMc

Switching 10/100/1000 and Gigabit Miniature Media Converters

RoHS Compliant

MEDIA CONVERSION

The MiniMc-Gigabit and Giga-MiniMc offer the smallest, most reliable and cost-effective switching 10/100/1000 Mbps and Gigabit media converters in the industry.

Features and Benefits

The most cost-effective fiber converters available today

- Giga-MiniMc connects 10/100/1000 Mbps copper to 1000 Mbps fiber
- MiniMc-Gigabit converts 1000 Mbps copper to 1000 Mbps fiber
- Supports Jumbo Frames (up to 10240 bytes)
- 6-year comprehensive warranty on module and power adapter

Plug-and-Play operation

- User-friendly 10/100/1000 Mbps Auto Negotiation technology
- AutoCross feature on twisted pair connection

Perfect for a variety of applications

- Powering options include: AC adapter, USB/Double-USB cable, AC to DC DIN-Rail Power Adapter and IE-PowerTray/18-AC
- SFPs are available for multi-mode fiber, single-mode fiber and single-strand fiber

Space saving features

- Small, rugged enclosures with compact, external country-specific AC power adapter
- IE-PowerTray/18-AC Chassis supports up to 18 modules in the 1.5U high rack-mountable enclosure

Additional modes on select units

- SFP Speed Detect: Reads SFP information and automatically configures it to 100 Mbps or 1000 Mbps
- Link Fault Pass-Through (LFPT): a troubleshooting feature that monitors the copper and fiber ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port (Pass-Through) and notifies the user via LED

Media conversion is the most cost-effective solution for extending the productive life of legacy wiring plants and equipment while allowing implementation of new technologies. Media conversion's greatest benefits are flexibility and cost savings. However, with networks constantly growing and projects increasing in scope, even reasonably-priced media converters can tack on a substantial sum to networking costs. Space constraints can also be an issue when hundreds of conversions are required.

Measuring less than 3.5 inches deep and 2 inches wide, the MiniMc-Gigabit and Giga-MiniMc are one of the industry's smallest media converters with both data connections on the same side of the unit. An optional fiber SFP port gives network operators the flexibility to upgrade network equipment to different fiber interfaces.

MiniMc-Gigabit features:

- One 1000Base-SX or 1000Base-LX fiber port
- One 1000Base-T twisted pair port

Giga-MiniMc features:

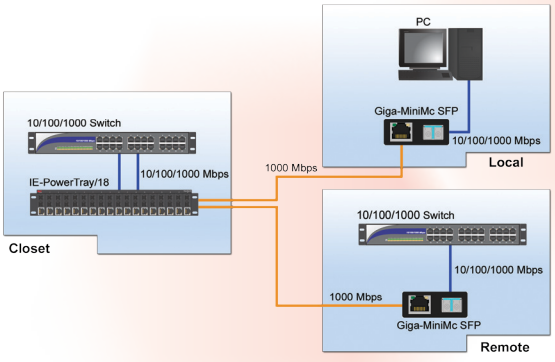
- One 1000Base-SX or 1000Base-LX SFP port
- One 10/100/1000 Mbps twisted pair port that auto-senses the connected device's speed and duplex mode

Giga-MiniMc LFPT features:

- One 1000Base-SX or 1000Base-LX fiber port
- One 10/100/1000 Mbps twisted pair port that auto-senses the connected device's speed and duplex mode
- Link Fault Pass-Through mode
- SFP Speed Detect on SFP model

Application Example

As a standalone unit, install the *Giga-MiniMc* virtually anywhere, even in areas where space is extremely limited. For applications requiring hundreds of connections, install Giga-*MiniMc SFPs* in the high-density *IE-PowerTray/18-AC* chassis; each of which allows 18 conversions in only 1.5 rack units of space.



Technical Specifications

- Plug-and-play operation
- RJ-45 and SC or SFP connectors
- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- Supports Jumbo Frames (up to 10240 bytes)
- Country-specific, high-reliability power adapter
- Auto Negotiation, Auto-Cross for MDI/MDIX
- Link Fault Pass-Through
- SFP Speed Detect
- Link LEDs

Regulatory Approvals:
- FCC Class A (Giga-MiniMc)
- FCC Class B (MiniMc Gigabit)
- UL/cUL, CSA, CE

Dimensions:
0.83"H x 1.80"W x 3.35"D
(2.11 x 4.57 x 8.51 cm)

Shipping Weight:
0.7 lbs (.317 kg)

Power Rating:
5 VDC, 400mA
120V AC, 0.1A

Operating Temperature:
+32° F to +122° F (0° C to +50° C);
5% to 95% (non-condensing)

Storage Temperature:
-31° F to +167° F (-35° C to +75° C)

IE-PowerTray/18-AC

- 18 slots for powering converters
- 1.5U high, rack mountable enclosure

Regulatory Approvals:
- FCC Class B
- UL/cUL, CSA, CE

Dimensions
2.30"H x 16.97"W x 9.25"D
(5.80 x 43.10 x 23.5 cm)

Shipping Weight
10 lbs (4.5 kg)

Power Information
AC Input Load: 100-240V
AC, 50/60 Hz, 1.5A

Operating Temperature
-4° to +158° F
(-20° to +70° C);
5% to 95% (non-condensing)

Storage Temperature
-40° to +185° F
(-40° to +85° C);
5% to 95% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. Select units supports MSA compliant SFPs with a 155 Mbps or 1250 Mbps bandwidth rating. IMC Networks provides a complete range of SFP transceivers in both Single and Duplex fiber versions with a full range of wavelengths and distance ratings. For complete power budget info and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
MiniMc-Gigabit 1000 [1]		
855-10730	MiniMc-Gigabit, TX/SX-MM850-SC	220/550 m
855-10731	MiniMc-Gigabit, TX/LX-SM1310-SC	10 km
855-10732	MiniMc-Gigabit, TX/LX-SM1310/PLUS-SC	40 km
855-10733	MiniMc-Gigabit, TX/LX-SM1550/LONG-SC	80 km
MiniMc-Gigabit 1000 Single-Strand Fiber [1 2]		
855-10742	MiniMc-Gigabit, TX/SSBX-SM1310-SC	10 km
855-10743	MiniMc-Gigabit, TX/SSBX-SM1490-SC	10 km
855-10734	MiniMc-Gigabit, TX/SSLX-SM1310-SC	15 km
855-10735	MiniMc-Gigabit, TX/SSLX-SM1550-SC	15 km
855-10744	MiniMc-Gigabit, TX/SSBX-SM1310/PLUS-SC	30 km
855-10745	MiniMc-Gigabit, TX/SSBX-SM1490/PLUS-SC	30 km
855-10736	MiniMc-Gigabit, TX/SSLX-SM1310/PLUS-SC	40 km
855-10737	MiniMc-Gigabit, TX/SSLX-SM1550/PLUS-SC	40 km
855-10738	MiniMc-Gigabit, TX/SSLX-SM1510/LONG-SC	70 km
855-10739	MiniMc-Gigabit, TX/SSLX-SM1570/LONG-SC	70 km

PART NUMBER	DESCRIPTION
IE-PowerTray/18-AC	
850-13086	IE-PowerTray/18-AC (1.5U high, Rack-mountable Enclosure)
Accessories	
806-39105	DIN Rail Clip
806-39720	AC Power Adapter (10 watt, 0° to +50° C) - FranMar
806-39638	Double-USB Power Cable, 36" for Giga-MiniMc, MiniMc-Gigabit
806-39650	12" Barrel-Connector Power Cable
806-39753	IE-Power/5V, AC to DC DIN Rail Power Adapter (-20° to +70° C)
806-00720-00	USA Power Adapter Clip - FranMar
806-00720-01	UK Power Adapter Clip - FranMar
806-00720-02	Europe Power Adapter Clip - FranMar
806-00720-03	Australia/NZ Power Adapter Clip - FranMar

PART NUMBER	DESCRIPTION	DISTANCE
Giga-MiniMc 10/100/1000 [1]		
856-10747	Giga-MiniMc TX/SFP [§]	Varies
856-11700	Giga-MiniMc/LFPT TX/SFP [§ *]	Varies
856-11701	Giga-MiniMc/LFPT, TX/SX-MM850-SC	220/550 m
856-10730	Giga-MiniMc, TX/SX-MM850-SC	220/550 m
856-10728	Giga-MiniMc, TX/LX-MM1310-SC	2 km
856-10731	Giga-MiniMc, TX/LX-SM1310-SC	10 km
856-10732	Giga-MiniMc, TX/LX-SM1310/PLUS-SC	40 km
856-10733	Giga-MiniMc, TX/LX-SM1550/LONG-SC	80 km
856-10729	Giga-MiniMc, TX/LX-SM1550/XLONG-SC	100 km
Giga-MiniMc 10/100/1000 Single-Strand Fiber [1 2]		
856-10742	Giga-MiniMc, TX/SSBX-SM1310-SC	10 km
856-10743	Giga-MiniMc, TX/SSBX-SM1550-SC	10 km
856-10734	Giga-MiniMc, TX/SSLX-SM1310-SC	15 km
856-10735	Giga-MiniMc, TX/SSLX-SM1550-SC	15 km
856-10744	Giga-MiniMc, TX/SSBX-SM1310/PLUS-SC	30 km
856-10745	Giga-MiniMc, TX/SSBX-SM1490/PLUS-SC	30 km
856-10736	Giga-MiniMc, TX/SSLX-SM1310/PLUS-SC	40 km
856-10737	Giga-MiniMc, TX/SSLX-SM1550/PLUS-SC	40 km
856-10738	Giga-MiniMc, TX/SSLX-SM1490/LONG-SC	70 km
856-10739	Giga-MiniMc, TX/SSLX-SM1550/LONG-SC	70 km

[1] To order modular versions without an AC adapter, change the first three numbers to 854-.

[2] These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.

[§] Requires one SFP/155 or SFP/1250 Module. SFP modules are sold separately. For more information on compatible IMC Networks SFPs, go to: www.imcnetworks.com/Products/product.cfm?family=32

[*] Unit features *SFP Speed Detect* technology.

CWDM wavelengths are also available. Contact IMC Networks for a complete list of part numbers.

FCS FREE Fiber Consulting Services · RoHS · Made in USA · 6-YEAR Comprehensive Warranty · ISO 9001:2008 REGISTERED

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